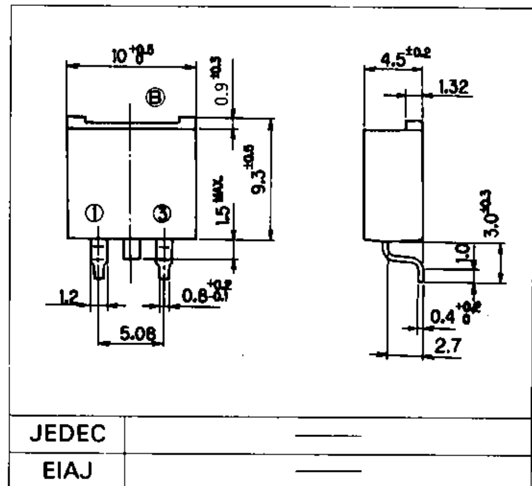
TS802C09(10A)

富士小電力ダイオード

ショットキーバリアダイオード

SCHOTTKY BARRIER DIODE

■外形寸法：Outline Drawings



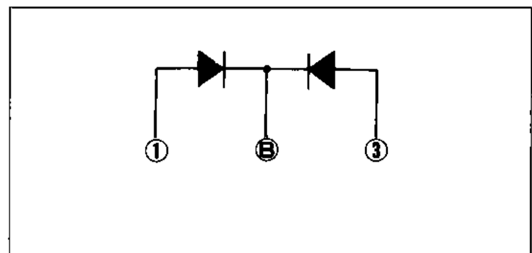
■特長：Features

- 表面実装が可能
  Surface mount device.
- 低V_F
  Low V_F
- スイッチングスピードが非常に速い
  Super high speed switching.
- プレーナー技術による高信頼性
  High reliability by planer design.

■用途：Applications

- 高速電力スイッチング
  High speed power switching.

■電極接続 Connection Diagram



■定格と特性：Maximum Ratings and Characteristics

●絶対最大定格：Absolute Maximum Ratings

Items	Symbols	Conditions	Ratings	Units
ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}		90	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	V_{RSM}	tw=500ns, duty=1/40	100	V
平均出力電流 Average Output Current	I_O	方形波, duty=½, Tc=92℃ Square wave	10*	A
サージ電流 Surge Current	I_{FSM}	正弦波 Sine wave 10ms	80	A
接合温度 Operating Junction Temperature	T_j		−40~+125	℃
保存温度 Storage Temperature	T_{stg}		−40~+125	℃

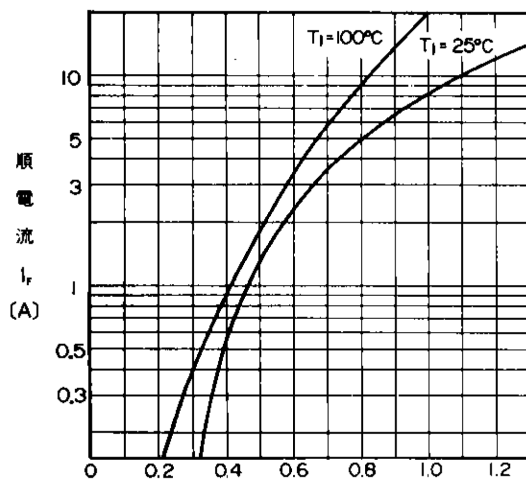
* センタータップ平均出力電流
* average forward current of centertap full wave connection

●電気的特性(特に指定がない限り周囲温度Ta=25℃とする)
Electrical Characteristics (Ta=25℃ Unless otherwise specified)

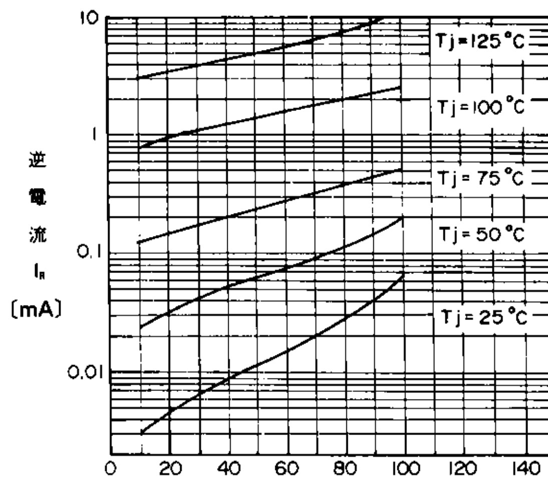
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	V_{FM}	I_{FM}= 4A	0.9	V
逆電流 Reverse Current	I_{RRM}	$V_R=V_{RRM}$	5.0	mA
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 Junction to case	3.0	℃/W

A

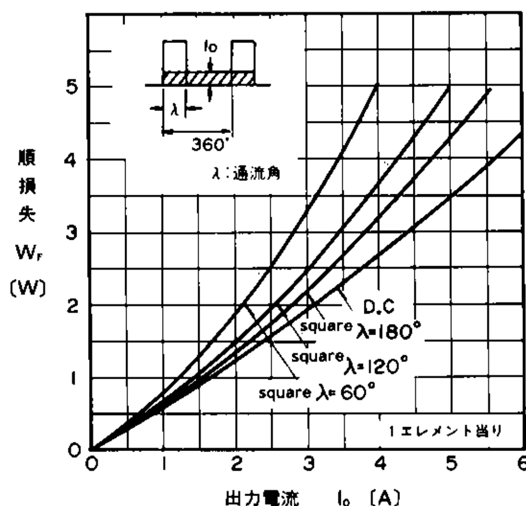
■特性曲線：Characteristics



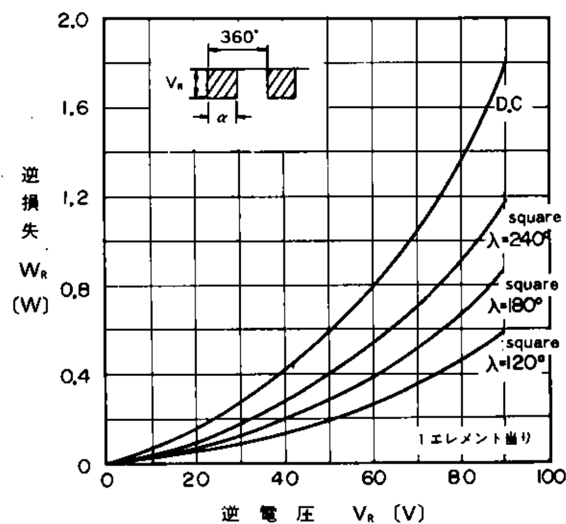
順特性　(代表特性)
Forward Characteristics



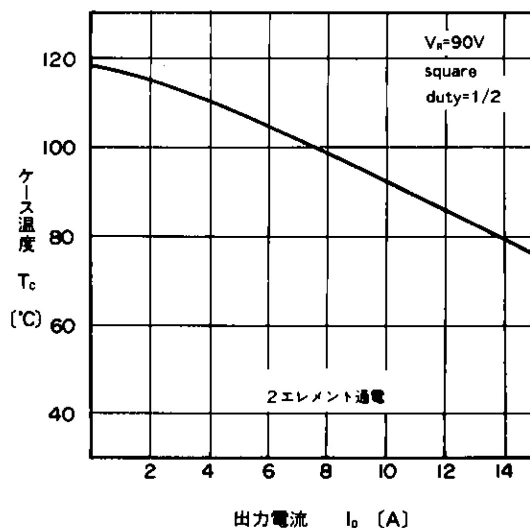
逆特性　(代表特性)
Reverse Characteristics



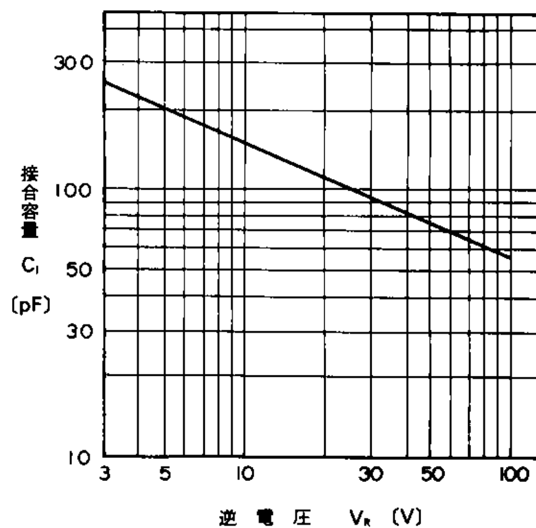
順損失特性
Forward Power Dissipation



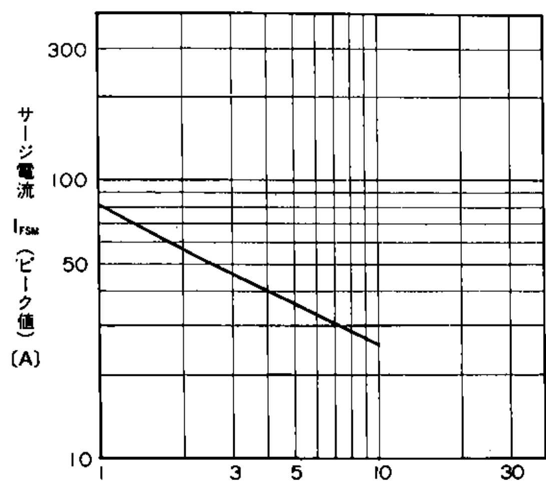
逆損失特性
Reverse Power Dissipation



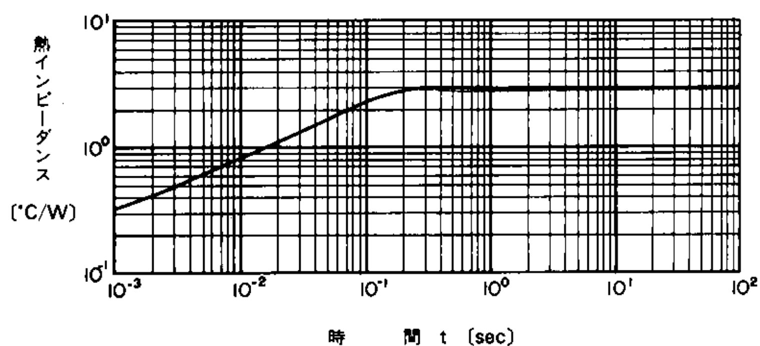
出力電流―ケース温度特性
Output Current-Case Temperature



接合容量特性　(代表特性)
Junction Capacitance Characteristics



サージ電流耐量
Surge Capability



過渡熱インピーダンス
Transient Thermal Impedance

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